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变 豆 菜 属 二 新 种*

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TWO NEW SPECIES OF *SANICULA* L. (UMBELLIFERAE) FROM CHINA

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Abstract Two new species of the genus *Sanicula* (Umbelliferae), *S.pengshuiensis* Sheh et Z.Y.Liu and *S.oviformis* X.T.Liu et Z.Y.Liu, are described from Sichuan Province, China.

Key worde *Sanicula*; *S.pengshuiensis*; *S.oviformis*
关键词 变豆菜属；彭水变豆菜；卵叶变豆菜

1.彭水变豆菜 新种 图 1

Sanicula pengshuiensis Sheh et Z. Y. Liu, sp. nov.

Species affinis *S. coerulescenti* Franch. sed inflorescentia pluriramosa in cymam disposita, umbellis omnibus pedunculatis, stylis sepalis 3.5—4-plo longioribus pendulis differt.

Herba perennis, 20—50 cm alta. Radix brevis. Caules erecti, glabri, singulares vel 2—3. Folia basilaria numerosa, petiolis 20—28 cm longis purpurascentibus, vaginis late ovatis, margine tenuiter membranceis, 0.5—0.8 cm longis, 0.8—1 cm latis, laminis ambitu suborbiculatis vel late ovatis, palmatim trisectis, 5—10 cm longis, 5—9 cm latis, segmentis centralibus longe ellipticis vel longe obovato-ellipticis, basibus cuneatis apicibus acutis, 5—8 (10) longis, 2.5—3.5 cm latis, segmentis lateralibus oblique ellipticis, 3.5—5 cm longis, 2—2.5 cm latis, ad marginem parce leviter serratis vel setiformi-serratis omnibus utrinque glabris, papyraceis. Umbellae numerosae in cymam terminalem dispositae, pedunculis longis; involucri phylla 4—5, minora, lanceolata vel deltoideo-lanceolata, 1—1.5 mm longa, 0.5 mm lata; radii 5—11, subaequilongi, 2.6—6 mm longi; phylla involucelli 5, linearia, 0.5—1 mm longa; umbellulae 5—6-florae, floribus masculis 4—5, pedicellis 2 mm longis, flore hermaphrodito 1, subsessili; petala ignota; calycis dentes lineares vel setiformes, c. 0. 8 mm longi; styli sepalis plerumque 3. 5—4-plo

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longioribus, reflex pendis; stylopodia conica. Fructus oblongi, c.2—2.5 mm longi, 1—1.7 mm lati, ad superficies aculeolis breviter strictis, jugis crassis projectis, sectione transversali mericarpiorum rotundati; vittae ad bases jugorum solitariae, ad commissuram 2, endospermiis ad commissuras fere planis vel leviter convexis.

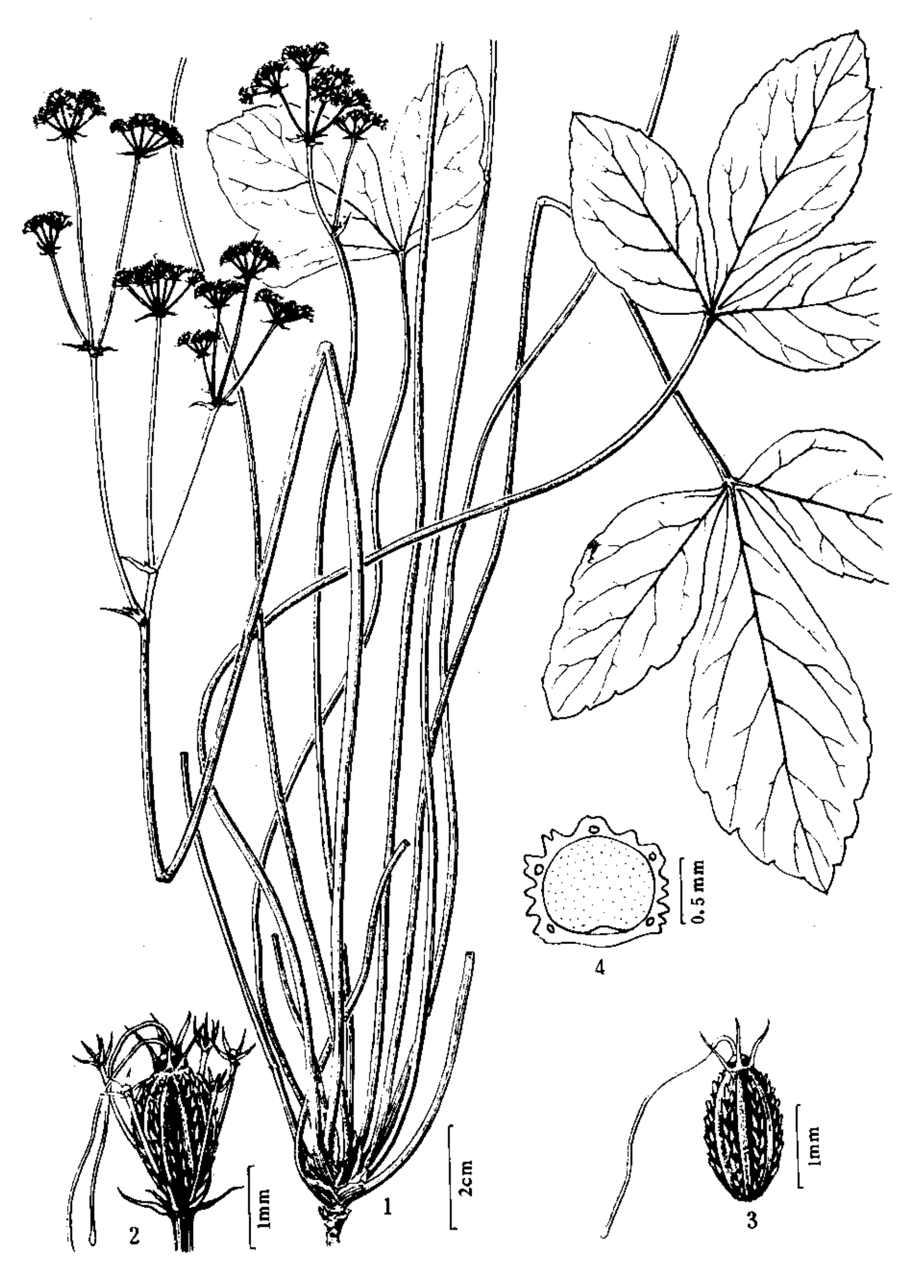


图1 彭水变豆菜 1. 植株; 2. 小伞形花序; 3. 分生果; 4. 分生果横剖面。

Fig.1 *Sanicula pengshuiensis* 1. plant; 2. umbellule; 3. mericarp; 4. cross section of mericarp.

Sichuan(四川): Pengshui(彭水), suburb, alt. 500 m, in moist place by streams, 1979.04.11., Tan Si-xian(谭士贤)0106(Type! SMI); same locality 1979.09.20., same collector 1259.

多年生草本,高 20—25cm。根茎短,具须根。茎单一或 2—3,直立,光滑无毛。基生叶多数,叶柄长 20—28cm,常带紫色,叶鞘椭圆形,边缘膜质,长 0.5—0.8cm,宽 0.8—1cm;叶片轮廓近圆形或宽卵形,掌状 3 全裂,长 5—10cm,宽 5—9cm,中间裂片长椭圆形或倒卵状长椭圆形,基部略带楔形,先端急尖,长 5—10cm,宽 2.5—3.5cm,两侧裂片偏斜椭圆形,长 3.5—5cm,宽 2—2.5cm,边缘具浅锯齿,锯齿顶端具刺毛状尖头,两面无毛,纸质。花序多分枝,顶生和侧生伞形花序全部具柄,花序梗较长,组成聚伞状,总苞片 5—6,细小,披针形或三角状披针形,长 1—1.5mm,宽 0.5mm;伞辐 5—11,近等长,长 2.6—6mm;小总苞片 5,线形,长 0.5—1mm;小伞形花序有花 5—6,雄花 4—5,花柄长约 2mm,两性花 1,位于小伞形花序中央,近无柄,花瓣未见;萼齿线形或呈刺毛状,长约 0.8mm,花柱长于萼齿 3.5—4 倍,先端平直向下垂,花柱基圆锥形。果实长圆形,长 2—2.5mm,宽 1—1.7mm,表面密生短而直的皮刺,果棱粗,明显突起;果棱基部有油管 1,合生面油管 2,分生果横剖面圆形,胚乳腹面平直或稍凹入。

本种与天蓝变豆菜 *S.coerulescens* Franch.相似,但本种花序多分枝,侧生和顶生伞形花序均具长柄,组成聚伞状花序,花柱很长,比萼齿长 3.5—4 倍,先端平直下垂,而后者花序不分枝,侧生伞形花序无柄,通常呈假总状花序,花柱较短,仅比花萼长约 1 倍,先端旋卷,可以区别。

2.卵叶变豆菜　新种　图 2

Sanicula oviformis X. T. Liu et Z. Y. Liu, sp. nov.

Species affinis *S. lamelligerae* Hance sed caule plerumque tenuiter subsarmentosis, foliis palmatim trisectis, segmentis ovatis vel obovatis, subcoriacis, ad margines leviter crenatis vel subintegris, mericarpii aculeolis numquam lamellatis differt.

Herba perennis, 12—25 cm alta. Tuber radicale fuscum, parvum, fibras paucitubeferas edens. Caules singulares vel 2—3, tenuiter subsarmentosi, 20—40 cm longi. Folia omnia basalia, petiolis 6—22 cm longis, vaginis minoribus late ovatis, laminis ambitu late deltoideo-ovatis, palmatim trisectis, 2—4 cm longis, 2.5—5 cm latis, segmentis centralibus obovatis vel obovato-orbiculatis apicibus obtuse, basibus cuneatis, 1.2—2.5 cm longis, 1—2 cm latis, marginibus leviter apiculate-crenatis, plerumque revolutis, subtus purpuracentibus, manifeste reticulatis, nervis projectis, segmentis lateralibus oblique ovatis, basibus truncatis, 1—2.5 cm longis, 1—2 cm latis; folia ad furcas inflorescentiae minima, trisecta, late vaginata. Umbellae compositae in inflorescentiam racemiformem terminalen dispositae; phylla involucri 3—5, subuliforma inaequilonga, 0.5—1.2 mm longa; radii 3, c. 7 mm longi; phylla involucelli 5, subuliforma; umbellulae 6—florae, floribus masculis 5, pedicellis 2.5 mm longis, sparsim pilosis, flore hermaphrodito 1, sessili; calycis dentes lineari-lanceolati c. 0.5 mm longi; styli c.2.5 mm longi; stylopodia discoidea. Fructus ovati, apicibus leviter angustis, 2 mm longi, 1 mm

lati, ad superficies aculeis breviter strictis, jugis projectis, sectione transversali mericarpiorum rotundati; vittae ad bases jugorum solitariae, ad commissuram 2, endospermiis ad commissuras fere planis.

Sichuan(四川): Nanchuan(南川), alt. 650 m, in moist grass, 1983.06.28, Sheh Meng-Lan 83646(Type! JSBI).

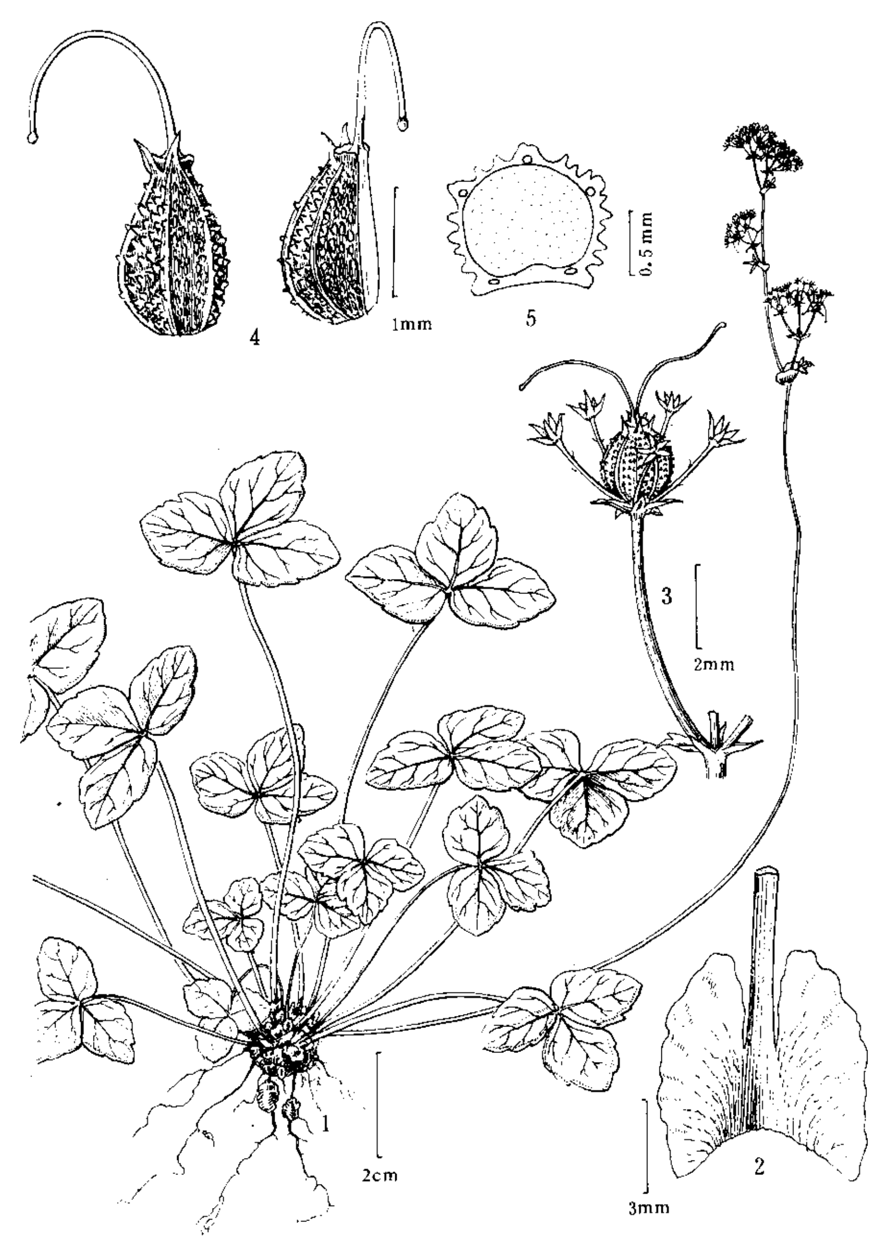


图2 卵叶变豆菜 1.植株;2.叶鞘;3.花序一部分;4.分生果;5.分生果横剖面。(陈荣道绘)
Fig.2 *Sanicula oviformis* 1.plant; 2.sheath; 3.a part of inflorescence; 4.mericarp; 5.cross section of mericarp.

多年生草本,高12—25cm。具块根,暗褐色,须根上常有瘤状小块。1至数茎,细柔近匍匐,长20—40cm。基生叶多数,具叶柄,叶柄长6—22cm,基部有细小阔卵形的叶鞘;叶片轮廓为阔三角状卵形,质厚,近革质掌状三全裂,长2—4cm,宽2.5—5cm,中间裂片倒卵形或倒卵状圆形,先端钝,基部楔形,长1.2—2.5cm,宽1—2cm,边缘具少数圆锯齿,顶端有小尖头,边缘反曲,背面为深紫红色,网状脉明显,侧裂片偏斜卵形,基部截形,长1—2.5cm,宽1—2cm,花序分枝处叶3裂,细小,具宽阔叶鞘。复伞形花序成总状排裂,顶生,总苞片3—5,钻形,大小不等,长0.5—1.2mm,伞辐3,长约7mm;小总苞片5,钻形,小伞形花序有花6;雄花5,花柄长约2.5mm,被稀疏极短毛,两性花1,无柄,位于小伞形花序中央,萼齿线状披针形,长约0.5mm,花柱长约2.5mm,花柱基扁盘形。果实卵形,顶端稍狭,长2mm,宽1mm,表面密生短而直的皮刺;果棱突起;果棱基部有油管1,合生面油管2;分生果横剖面圆形,胚乳腹面平直。

本种与薄片变豆菜 *S.lamelligera* Hance 相似,但本种茎细长柔弱近匍匐,叶较小,裂片倒卵形或卵形,不再分裂,质厚,近革质,边缘全缘或仅具极浅的圆齿,果实皮刺的基部绝不连成薄片状。而后者茎短直立,叶的中间裂片3浅裂,侧裂片2深裂或浅裂,边缘具显著的缺刻状锯齿,果实皮刺基部连成薄片状,可以区别。